



Attorney Docket 061567-5002

U.S. Application 08/670,119

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Amendments to the Claims:

The following listing of claims will replace all prior versions and listing of claims in the application.

Please amend claims 67, 72-76, 80, 82, 85 and 86 as indicated below.

Please cancel claim 68 and 81 without prejudice or disclaimer to the subject matter claimed therein.

Listing of Claims:

1-66. (cancelled)

67. (currently amended): A method of treating hypertension in a [mammal] human in need of said treatment comprising administering an effective amount of a peptide comprising at least sixteen (16) contiguous amino [acids] acid residues selected from an amino acid sequence of a transmembrane domain of an alpha-1A adrenergic receptor selected from the group consisting of:

[GVGVGVFLAAFILMAVAGNLLVILSV (SEQ ID NO: 23);
FIVNLAVADLLLTSATVLPFSATMEVL (SEQ ID NO: 24);
DVWAAAVDVLCCTASILSLCTISV (SEQ ID NO: 25);
AAIALLWVVALVVSVGPLLGWKEP (SEQ ID NO: 26);
AGYAVFSSVCSFYLPMAMIVVMYC (SEQ ID NO: 27);
LAIIVVGVFVLCWFPPFFFVPLGSL (SEQ ID NO: 28); and
EGVFKVIFWLGYFNNSCVNPLIYPCS (SEQ ID NO: 29).]

IVNLAVALLLTSTVLPFSAIFEV (SEQ ID NO: 64);
LMALLCVWALSLVISIGPLFGWRQ (SEQ ID NO: 65);
LGIVVGCFCVLCWLPFFLVMPIGSF (SEQ ID NO: 66);
VFKIVFWLGYLNNSCINPITYPCS (SEQ ID NO: 67);
LLGVILGGLILFGVGLGNILVILSV (SEQ ID NO: 68);
CNIWAADVLCCTASIMGLCIISIDRY (SEQ ID NO: 69); and
YVLFSALGSFYLPLAIIIVMYC (SEQ ID NO: 70).

68. (cancelled)

69. (currently amended): The method according to claim 67 [or 68] wherein the peptide binds to a transmembrane domain of the alpha-1A adrenergic receptor.

70. (previously presented): The method according to claim 69 wherein the peptide inhibits the activity of the alpha-1A adrenergic receptor.

71. (previously presented): The method according to claim 70 wherein the inhibition of the activity of the alpha-1A adrenergic receptor induces vasodilation or inhibits vasoconstriction.

72. (currently amended): The method according to claim 67 [~~or 68~~] wherein the peptide retains a helical [~~confirmation~~] conformation.

73. (currently amended): The method according to claim 67 [~~or 68~~] wherein the peptide comprises up to twenty-six amino acid residues.

74. (currently amended): The method according to claim 67 [~~or 68~~] wherein one or more of the amino acid residues of the peptide contains a side chain modification.

75. (currently amended): The method according to claim 67 [~~or 68~~] wherein one or more of the amino acid residues of the peptide is a non-natural amino acid.

76. (currently amended): The method of claim 67 [~~or 68~~] wherein the peptide is altered to increase plasma half-life following administration.

77. (previously presented): The method of claim 76 wherein the peptide is conjugated to one or more water-soluble polymers.

78. (previously presented): The method of claim 76 wherein the peptide is incorporated into a polymeric matrix.

79. (cancelled).

80. (currently amended): The method according to claim 67 wherein the amino acid sequence of the peptide is [~~selected from the group consisting of:~~] VFKVIFWLGYFNSCVN (SEQ ID NO: 31).

81. (cancelled).

82. (currently amended): The method according to claim 67 [~~or 68 where in~~] wherein the peptide is administered in combination with a pharmaceutically acceptable carrier.

83. (previously presented): The method according to claim 82 wherein the pharmaceutically acceptable carrier enhances stability of the peptide.

84. (previously presented): The method according to claim 82 wherein the pharmaceutically acceptable carrier enhances adsorption of the peptide.

85. (currently amended): The method according to claim 67 [~~or 68~~] wherein the peptide is administered by a route selected from the group consisting of oral, nasal, buccal, intravenous, intramuscular, subcutaneous and transdermal.

86. (currently amended): A method of treating hypertension in a human in need of said treatment consisting essentially of administering an effective amount of a peptide comprising at least [~~nine~~] sixteen contiguous amino ~~acids~~ acid residues selected from an amino acid sequence of a transmembrane domain of ~~an~~ a human alpha-1A adrenergic receptor.